

***The 49th CESASC Technical Symposium
Luncheon Keynote Speaker
2011 CESASC Achievement Award Recipient***



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Professor Xiang Zhang (張翔 博士)

**Ernest S. Kuh Endowed Chair Professor
Mechanical Engineering
University of California, Berkeley**

Xiang Zhang is the inaugural Ernest S. Kuh Endowed Chair Professor at UC Berkeley and the Director of an NSF Nano-scale Science and Engineering Center (NSEC) which includes Berkeley-UCLA-Stanford-MIT-Northwestern-UNCC. He served as the Director of a Department of Defense MURI Center on Metamaterials and Devices that includes Berkeley-MIT-UCLA-UCSD-Duke-Imperial College (UK) during 2001-2006. He is also a Faculty Scientist at the Materials Science Division of the Lawrence Berkeley National Laboratory (LBNL), US Department of Energy.

Professor Zhang is an elected member of the US National Academy of Engineering (NAE) and Fellow of four societies: APS, OSA, AAAS, and SPIE.

Professor Zhang received his Ph.D. from UC Berkeley (1996). He was an assistant professor at Pennsylvania State University (1996-1999), and associate professor and full professor at UCLA (1999-2004) prior to joining the Berkeley faculty in 2004.

Professor Zhang's current research focuses on nano-scale science and technology, metamaterials physics, nano-photonics and bio-technologies. He has published over 180 technical papers including publications in *Science* and *Nature*. He has given over 150 Keynote, Plenary and Invited talks at international conferences and institutions. He is on the editorial board of three journals. He served as a Co-Chair of NSF Nanoscale Science and Engineering Annual Grantee Conferences in 2004 and 2005, Technical Program Chair of the IEEE 2nd International Conference on Micro and Nano Engineered and Molecular Systems in 2007, and Chair of the Academic Advisory Board for the RCAS, Academia Sinica, Taiwan. He also served as a reviewer for the MacArthur Fellowship, and journals such as *Science*, *Nature*, and *Physical Review Letters*, etc.

In 2008, Professor Zhang's research was selected by *Time Magazine* as one of the “*Top Ten Scientific Discoveries of the Year*” and “*50 Best Inventions of the Year*”, as well as “*Top 100 Science Stories*” by *Discover Magazine*. His work is also among the *Top Ten Nanotechnology Breakthroughs* in 2005, and *Fast Breaking Papers*, as one of the most cited recent papers in Physics in 2006, and *R&D Magazine's top 25 Most Innovative Products of 2006*. His superlens work was selected as one of the “*Top 100 Science Stories*” in 2007 by *Discover Magazine*. Professor Zhang's research was frequently and widely featured by media by international media including *BBC News*, *CNN*, *ABC*, *CNBC*, *New York Times*, *Wall Street Journal*, *Times (London)*, *Los Angeles Times*, etc., as well as professional magazines as *Physics Today*, *Scientific American*, *R&D Magazine*, *MIT Technology Review*, etc.

Professor Zhang is a recipient of the NSF CAREER Award (1997); Engineering Foundation Award (1997); SME Dell K. Allen Outstanding Young Manufacturing Engineer Award (1998) and ONR Young Investigator Award (1999). He was also awarded a Chancellor's Professorship by UC Berkeley (2004-2009). He was selected as a “Distinguished Lecturer” at University of Texas at Austin in 2004 and SEMETECH in 2005, and “Rohsenow Lecturer” at MIT in 2009.